	Application No.	Applicant(s)	
Notice of Allowability	10/670,434	HAO ET AL.	
	Examiner	Art Unit	
	Khiem D. Nguyen	2823	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.31	pears on the cover sheet winds (OR REMAINS) CLOSED in the community of the cover sheet with the cover sheet	this application. If not included inication will be mailed in due course	
1. \square This communication is responsive to <u>05/01/06</u> .			
2. The allowed claim(s) is/are <u>1-22</u> .			
 3. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 	ve been received. ve been received in Applicatio	n No	um tha
International Bureau (PCT Rule 17.2(a)).	ocuments have been received	in this national stage application no	m me
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subin INFORMAL PATENT APPLICATION (PTO-152) which given the subin process of the subin terms of the	MENT of this application. mitted. Note the attached EXA	AMINER'S AMENDMENT or NOTICE	
<u> </u>			
 CORRECTED DRAWINGS (as "replacement sheets") mu (a) ☐ including changes required by the Notice of Draftspe 		(PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date	_	V(110-340) attached	
(b) ☐ including changes required by the attached Examine Paper No./Mail Date		in the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			of
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
Attachment(s) 1. ☑ Notice of References Cited (RTO 803)	5 □ Notice of In	formal Patent Application (PTO 152)	
 Notice of References Cited (PTO-892) Dotice of Draftperson's Patent Drawing Review (PTO-948) 		formal Patent Application (PTO-152) ummary (PTO-413),	
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB		Mail Date Amendment/Comment	
Paper No./Mail Date	·		
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. ⊠ Examiner's 9. ☐ Other	Statement of Reasons for Allowance)
		K.N. June 30 th , 2006	

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DETAILED ACTION

Allowable Subject Matter

1. Claims 1-22 are allowed over prior art of record.

Reasons For Allowance

2. The following is an examiner's statement of reasons for allowance:

After further search and consideration of Applicants' Appeal Brief filed on May 1st, 2006 (see Applicants' arguments in Pages 5 and 7 of the March 1st, Appeal Brief), it is determined that the prior art of record neither anticipates nor renders obvious the claimed subject matter of the instant application as a whole taken alone or in combination, in particular, prior art of record does not teach "implanting a second dopant into said substrate beyond the LDD junction depth to form a source/drain region, the implantation of the second dopant of sufficient dopant concentration to overpower a portion of the LDD remote from said channel and a substantial portion of the first dopant to define a floating region of the first dopant completely within the LDD region, the source/drain region and said surface and remote from said channel region with reduced dopant concentration relative to the dopant concentration of the LDD region" as recited in independent claim 1, and "forming a source/drain region, formation of the source/drain region resulting in forming a floating structure from the shallow region that is located completely within the LDD region, the source/drain region and said surface and generally aligned with the side edge of the gate structure, the floating structure having reduced dopant concentration relative to the doping concentration of the LDD region", as recited in independent claim 13.

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Claims 2-12 and 14-22 also allowed as being directly or indirectly dependent of the allowed independent base claims.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the
examiner should be directed to Khiem D. Nguyen whose telephone number is (571) 2721865. The examiner can normally be reached on Monday-Friday (8:30 AM - 5:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew S. Smith can be reached on (571) 272-1907. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

K.N. June 30, 2006

> MATTHEW SMITH SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800

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